

Grade 9

## The Line

$$\textcircled{1} y = \underline{m}x + \underline{b} \quad \text{slope / y-int}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad \text{rise over run}$$

$$\textcircled{2} ax + by = c \quad \begin{array}{l} \text{- mixtures} \\ \text{- two variable} \end{array}$$

$$\textcircled{3} Ax + By + C = 0 \quad \text{STANDARD FORM}$$

Feb 2-1:37 PM

Sony is selling televisions for \$500.

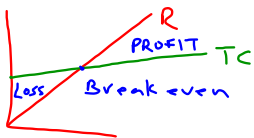
It costs a set up fee of \$10,000 and each TV costs \$250 in material. How many TVs must they sell to break even?

$$y_1 = 500x \quad \text{Revenue}$$

$$y_2 = 250x + 10000 \quad \text{Total Cost}$$

$$\text{Break Even } y_1 = y_2$$

Feb 2-2:08 PM



Feb 2-2:14 PM

Simple Substitution

$$y_1 = y_2$$

$$500x = 250x + 10000$$

$$500x - 250x = 10000$$

$$\frac{250x}{250} = \frac{10000}{250}$$

$$x = 40$$

At 40 TVs Sony will break even. Before they lose money, after 40 TVs they make a profit.

Feb 2-2:16 PM

Grade 10

Linear Systems

Quadratics

Trigonometry

Quadratics

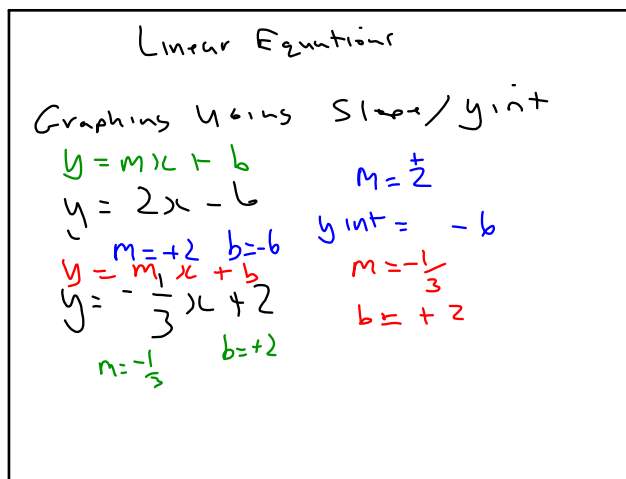
$$\textcircled{1} \text{ Vertex Form } y = a(x-h)^2 + k$$

$$\textcircled{2} \text{ Zeros - Factored Form } y = a(x-s)(x-t)$$

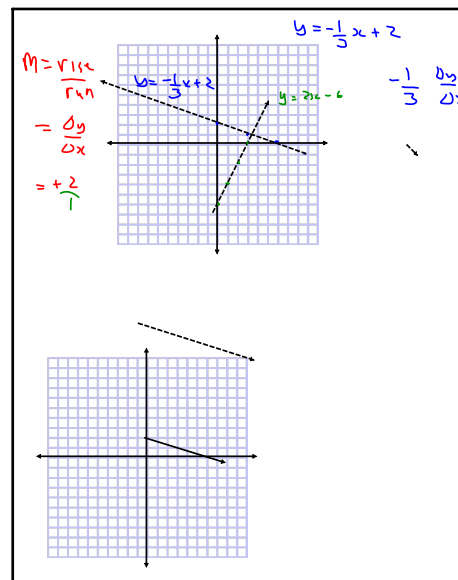
$$\textcircled{3} ax^2 + bx + c = 0 \quad \text{Standard Form}$$

Feb 2-2:20 PM

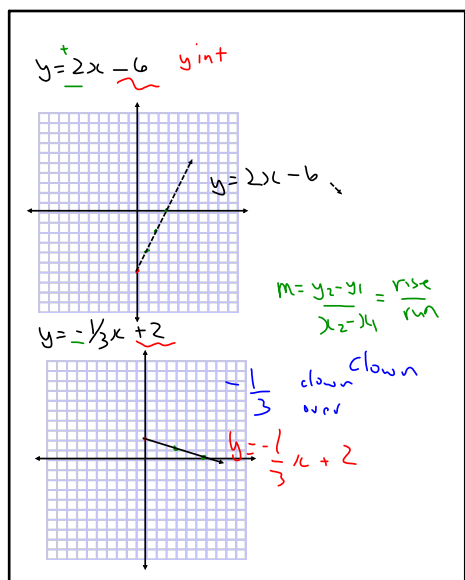
Feb 2-2:22 PM



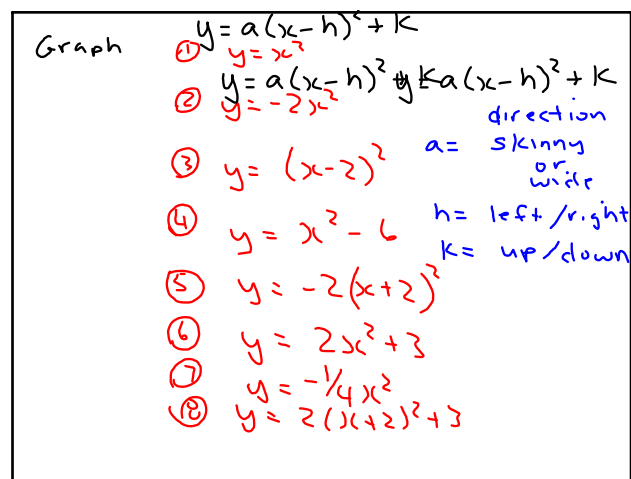
Feb 3-1:34 PM



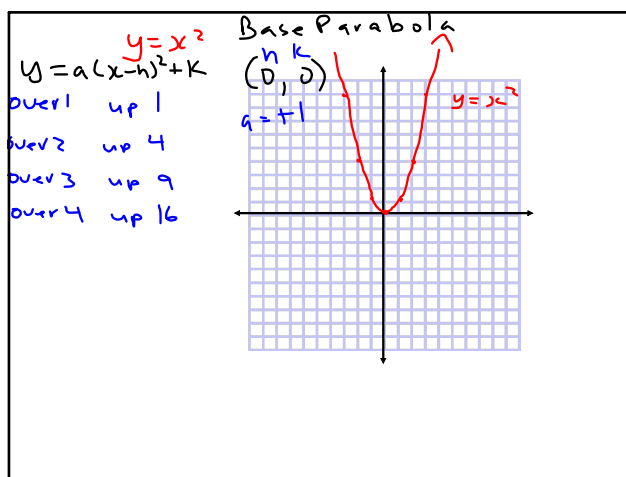
Feb 3-9:47 AM



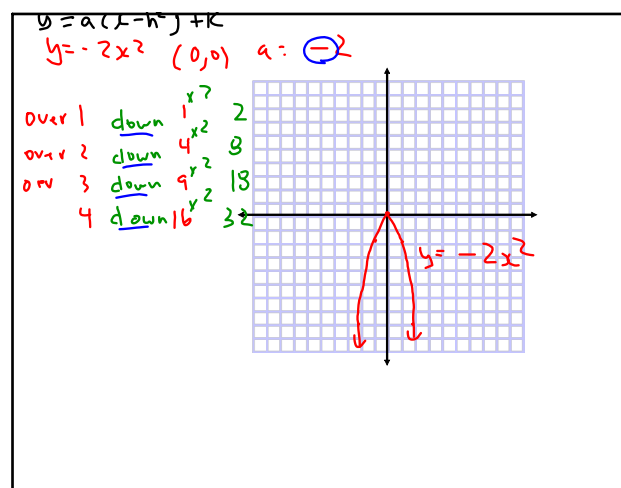
Feb 3-9:47 AM



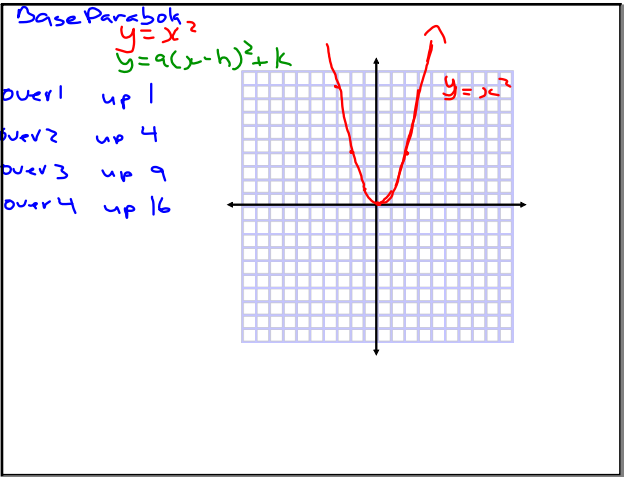
Feb 2-2:26 PM



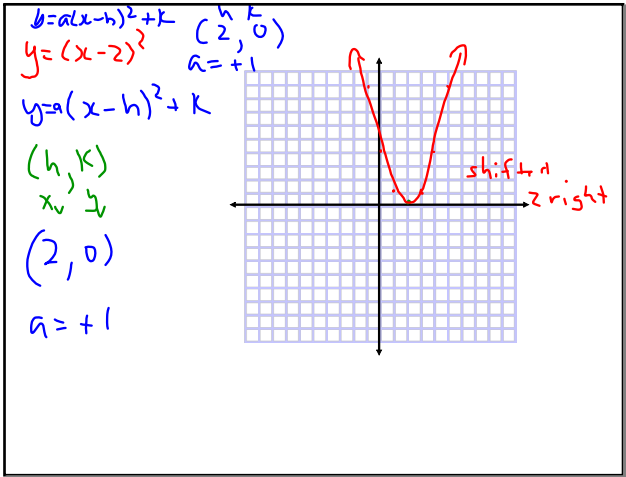
Feb 3-9:47 AM



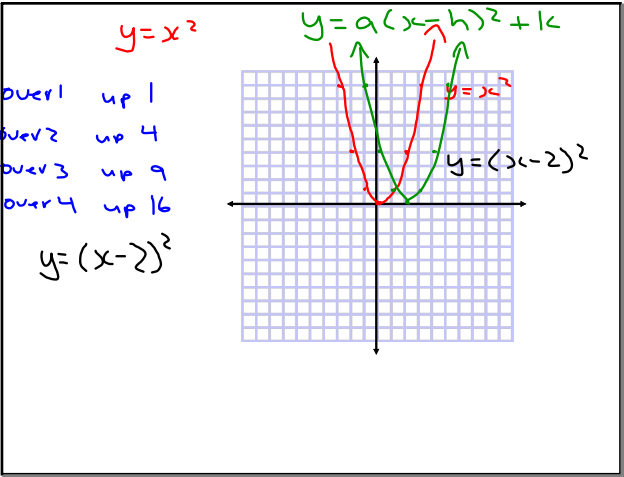
Feb 3-9:47 AM



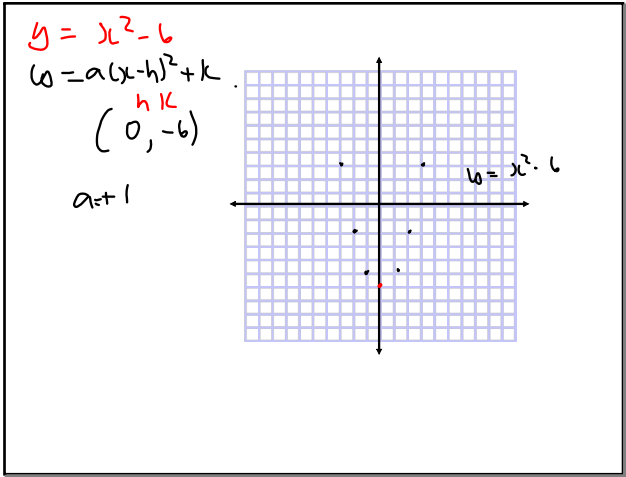
Feb 3-9:47 AM



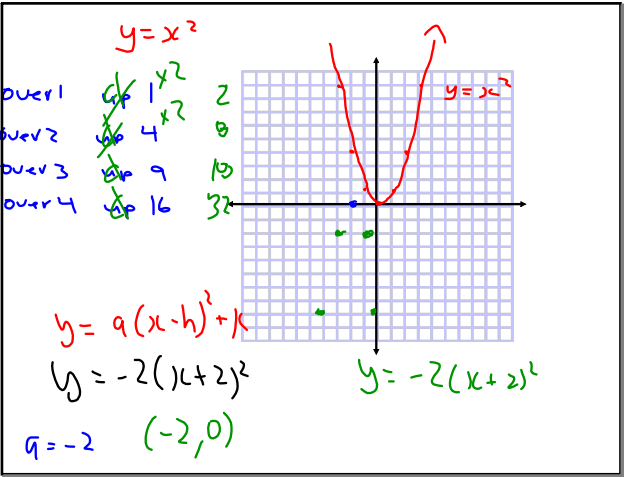
Feb 3-9:47 AM



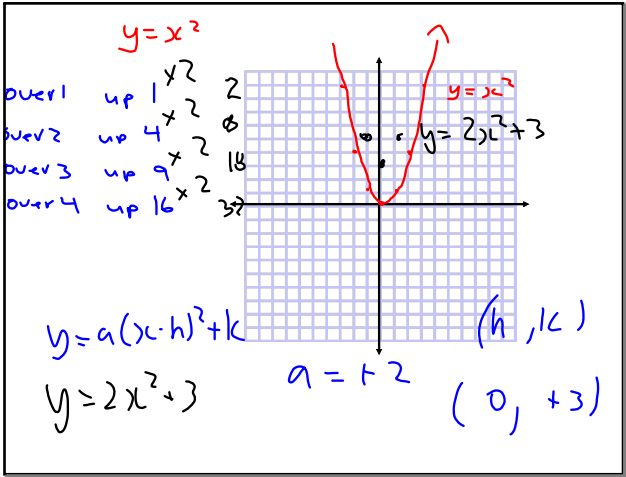
Feb 3-9:47 AM



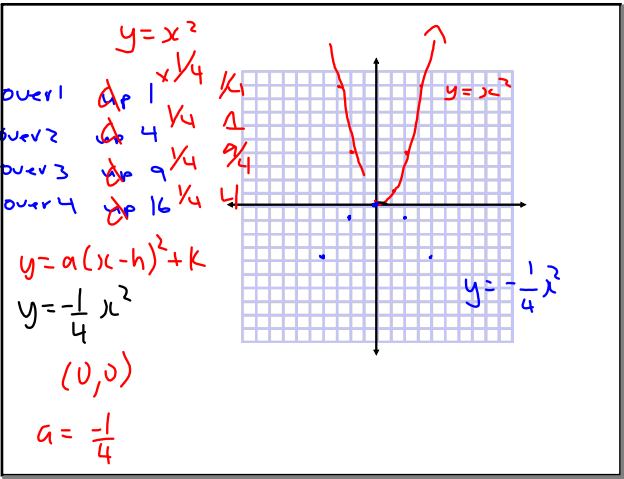
Feb 3-9:47 AM



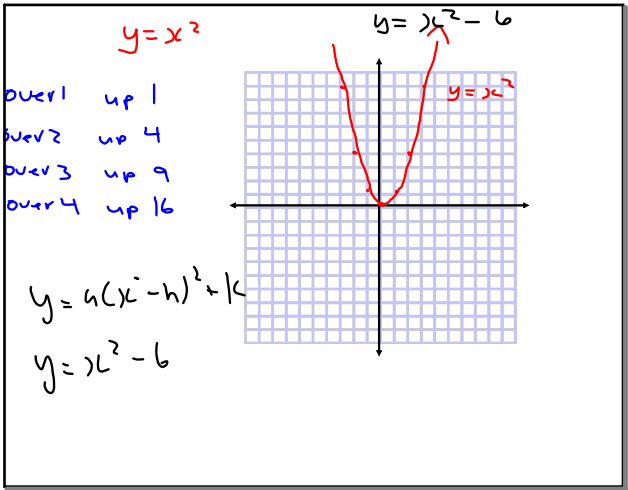
Feb 3-9:47 AM



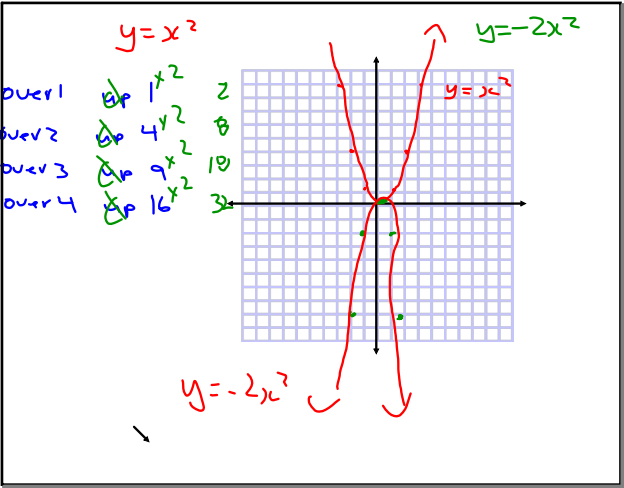
Feb 3-9:47 AM



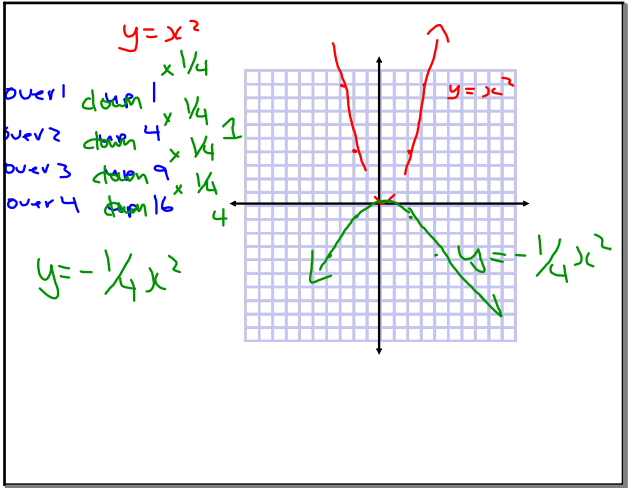
Feb 3-9:47 AM



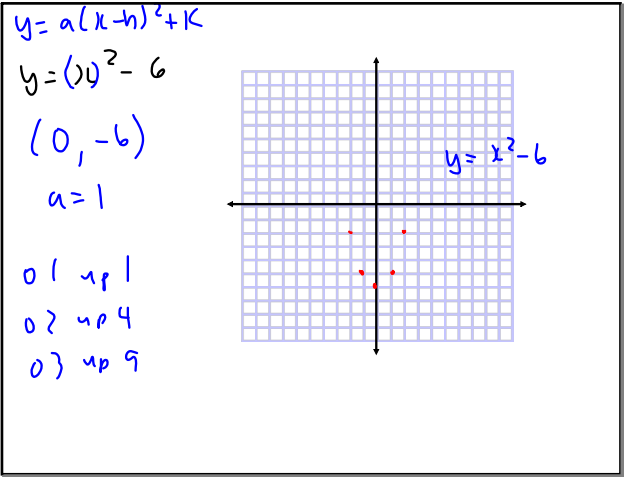
Feb 3-9:47 AM



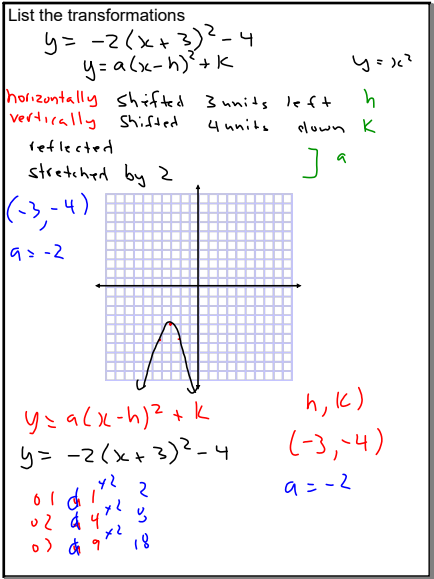
Feb 3-9:47 AM



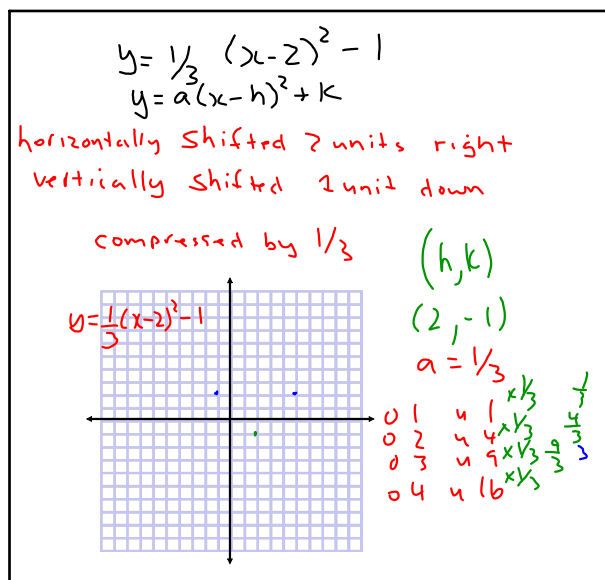
Feb 3-9:47 AM



Feb 3-9:47 AM



Feb 3-10:16 AM



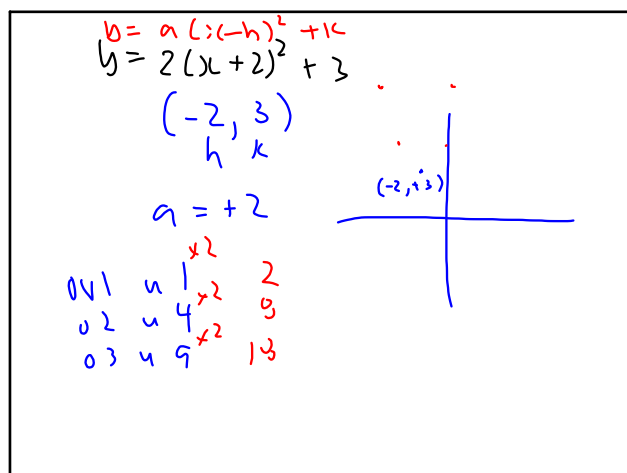
Feb 3-2:06 PM

Hmk p3 &amp; 4

q 3-10

p 5 complete

Feb 3-2:11 PM



Sep 6-10:43 AM